

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2004/001625

A. CLASSIFICATION OF SUBJECT MATTER**IPC7 H01L 33/00**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L H01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean Patents and applications for invention, since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6504180 B1 (IMEC VZW AND VIRJE UNIVERSITEIT) 07 JANUARY 2003 see the whole documents, figure 12	1 - 13
A	KR 2003-52060 A (LG ELECTRONICS CO. LTD.) 26 JUNE 2003 see the whole documents, figures 3f, 4	1 - 13
A	JP 10-65213 A (NICHIA CHEMICALS IND. LTD.) 06 MARCH 1998 see the whole documents, figures 1, 2	1 - 13
A	JP 2002-16312 A (SANYO DENKI K. K.) 18 JANUARY 2002 see the whole documents, figure 3	1 - 13
A	US 6420735 B2 (SAMSUNG ELECTRONICS CO. LTD.) 16 JANUARY 2002 see the whole documents, figures 3	1 - 13

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

11 OCTOBER 2004 (11.10.2004)

Date of mailing of the international search report

11 OCTOBER 2004 (11.10.2004)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

KIM, Dong Yup

Telephone No. 82-42-481-5749



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2004/001625

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6504180 B1	07.01.2003	EP 977280 A2 EP 977277 A1 US 2003075723 AA	02.02.2000 02.02.2000 24.04.2003
KR 2003-52060 A	26.06.2003	NONE	
JP 10-65213 A	06.03.1998	NONE	
JP 2002-16312 A	18.01.2002	NONE	
US 6420735 B2	16.01.2002	KR 1998-87472 A KR 446596 B	05.12.1998 23.08.2004